

## Description of Additional Supplementary Files

**File name:** Supplementary Data 1

**Description:** Selected data on orbital orientation of Carnivora and Marsupialia from the literature. Values in purple are our measurements (see Supplementary Tables S3) taken according to the landmarks given by the authors of the corresponding column. Abbreviations: CH19, Casares-Hidalgo et al. (2019); H05, Heesy (2005); F&G09, Finarelli and Goswami (2009); P&A17, Pilatti and Astúa (2017).

**File name:** Supplementary Data 2

**Description:** Landmark coordinates.